Amendments in the Claims

- 1. (Currently Amended): A node device for connecting a plurality of networks at least one of said plurality of networks having higher speed transmission lines than other transmission lines in the plurality of networks, said node device comprising:
- a plurality of input units for respectively inputting data from first transmission lines installed in each of said plurality of networks;
- a plurality of output units for respectively output ting data to second transmission lines installed in each of said plurality of networks;
- a first switching unit for switching data input from said input units to said output units; and
- having higher speed transmission lines and at least to higher speed input unit when trouble occurs in the higher speed transmission lines shifted by said parality of networks,

where input use that inputs data from the transmission line shared by said plurality of networks to be sput high speed transmission lines among said first transmission lines has transmission speed than other input units.

2. (On the line of device according to claim 1, wherein at least one of said input units has transmission one as that differ from those of the other input units, and at least one of said output units has transmission speeds that differ from those of the other output units.

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- 3. (Original): The node device according to claim 1, wherein the output unit that outputs data to a transmission line shared by said plurality of networks among said second transmission lines has a higher transmission speed than other output units.
- 4. (Currently Amended) A node device for connecting a plurality of networks, at least one of said networks having higher speed transmission lines than the plurality of networks, said node device comprising:
- a plurality of input units for respectively inputting data from first transmission lines installed in each of said plurality of networks,
- a plurality of output units for respectively utting data to second transmission lines installed in each of said plurality of lines;
- a first switching unit for switching that a input from said input units to said output units; and
- a coperation and transmits switching aformation only via the at least one network having higher speed transmission lines share a said a sality of networks,
- wherein an limit unit part inputs data from the transmission line shared by said plurality of newarks to be sutput to the higher speed transmission lines among said first transmission lines has this per transmission speed than other input units; and
- a memory unit for storing ring construction information that indicates that said first transmission lines and said second transmission lines connect to which of said plurality of networks;

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a transmission unit for producing topology information, squelch information and switching information concerning each of said plurality of networks on the basis of said ring construction information for each of the corresponding networks, and transmitting said topology information, said squelch information and said switching information via said output units; and

a second switching unit for performing processing including switching operations and bridging operations on the basis of said switching information.

- 5. (Currently Amended): A node device for cornecting a plurality of works, at least one of said plurality of networks having higher spectal ansmission lines in the plurality of networks, said node device comprise.
- a plurality of input units respectively input data from first transmission lines installed in each of said plurality of net prks;
- a plurality units for respectively outsutting data to second transmission lines installed in each residual plurality of networks
- a first switches and the data input from said input units to said output units; and
- higher speed a smission likes and at least one higher speed input unit when trouble has occurred in said higher and transmission lines shared by said plurality of networks,

wherein an input unit that inputs data from the transmission line shared by said plurality of networks to be output to the higher speed transmission lines among said first transmission lines has a higher transmission speed than other input units; and

a detection unit for detecting trouble in said first transmission lines; and

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a judgment unit for judging whether or not switching information is to be transmitted by said transmission unit to all of the networks to which said shared transmission line is connected, or to one of the networks among said networks when said detection unit detects trouble in said shared transmission line.

- 6. (Original): The node device according to claim 1, said one device further comprising:

 a multiplexing unit for multiplexing data by using the dital wrapper method or

 OHBT method, and sending this data to said output units when data is sweeted and output to
 said output units from said input units that have a masmission speed lower that of said
 output units.
- 7. (Original): The node device according to each, wherean said input units input frame data that has been multiple using the diggal wrapper method or OHBT method, and said